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P/N 145277

acdc electronics

DATA INCLUDES:

Specifications
Outline and Mounting
Connection Chart
Parts List
Schematics

CASE B MODELS

ECV5N6-1
ECV12N3.4
ECV24N2.4

B

SPECIFICATIONS-ECV SERIES, CASE B, SINGLE OUTPUT

AC INPUT: 100/117/220/230/240 VAC, 47-440Hz (Derate 10% for 50Hz operation)

FUSING: See chart

DC OUTPUTS: See chart

LINE REGULATION: ±0.05% for ±10% line change

LOAD REGULATION: ±0.05% for 50% load change

OUTPUT RIPPLE: 3mV Pk-Pk typical, 2mV RMS

TRANSIENT RESPONSE: 30usec for 50% load change

OVERLOAD AND SHORT CIRCUIT PROTECTION: Current limiting and foldback. Recovery automatic.

* OVERVOLTAGE PROTECTION: Fixed on all 5 volt units at 6.2 ± 0.4 volts.

TEMPERATURE RATING: Full rating, 0-50°C in free air. Derate linearly to 40% at 70°C.

TEMPERATURE COEFFICIENT: 0.02%/°C max.

REMOTE SENSING: Standard. Open sense lead protection is built in.

VIBRATION: Per Mil-Std-810C, method 514.2, proc. X, curve AW (to 50Hz)

SHOCK: Per Mil-Std-810B, method 516, proc. V.

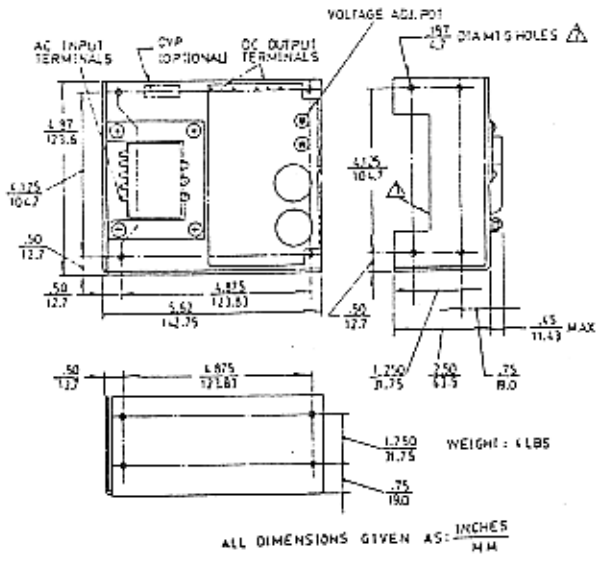
* Overvoltage protection modules available for 12, and 24V models.

MODEL	RATING
ECV5N6-1	5V, 6A
ECV12N3.4	12V, 3.4A
ECV24N2.4	24V, 2.4A

AC CONNECTIONS AND FUSING			
INPUT VOLTS	CONNECT	POWER TO	FUSE
100	1-2, 3-4	1,5	1.5A
117	1-2, 3-4	1,4	1.5A
220	2-3	1,5	3/4A
230/240	2-3	1,4	3/4A

WARRANTY

When used within specified operating conditions, every catalog listed ACDC power supply is warranted to be free from defects in material and workmanship for a period of 3 years. This warranty does not cover any product or parts which have been subjected to misuse, accident or improper operation or storage. The warranty covers all parts of the equipment including semiconductors and capacitors. All terms of this guarantee are in effect when the power supply is used as original equipment in equipment manufactured for sale. In case of warranty service the purchaser should promptly notify ACDC of the suspected recurrence describing the conditions. The method and place of warranty service will be specified by ACDC at its discretion. Authorized returns must be shipped prepaid to the specified service location unless otherwise specified. ACDC will prepay return shipment of repaired or replacement units under this warranty. Expressed or implied warranties other than as provided above ACDC shall not be responsible for any consequential damage whatsoever not foreseeable caused by failure of the power supply. The warranty of the equipment of others shall be that warranty extended by the manufacturer thereof. No charges for repair will be allowed without prior authorization by ACDC.



⚠2 MTG HOLES ARE CORRECT SIZE FOR INSTALLATION OF #6-32 PEM NUT

⚠3 CUTOUT FOR TRANSFORMER INPUT INSTALLATION

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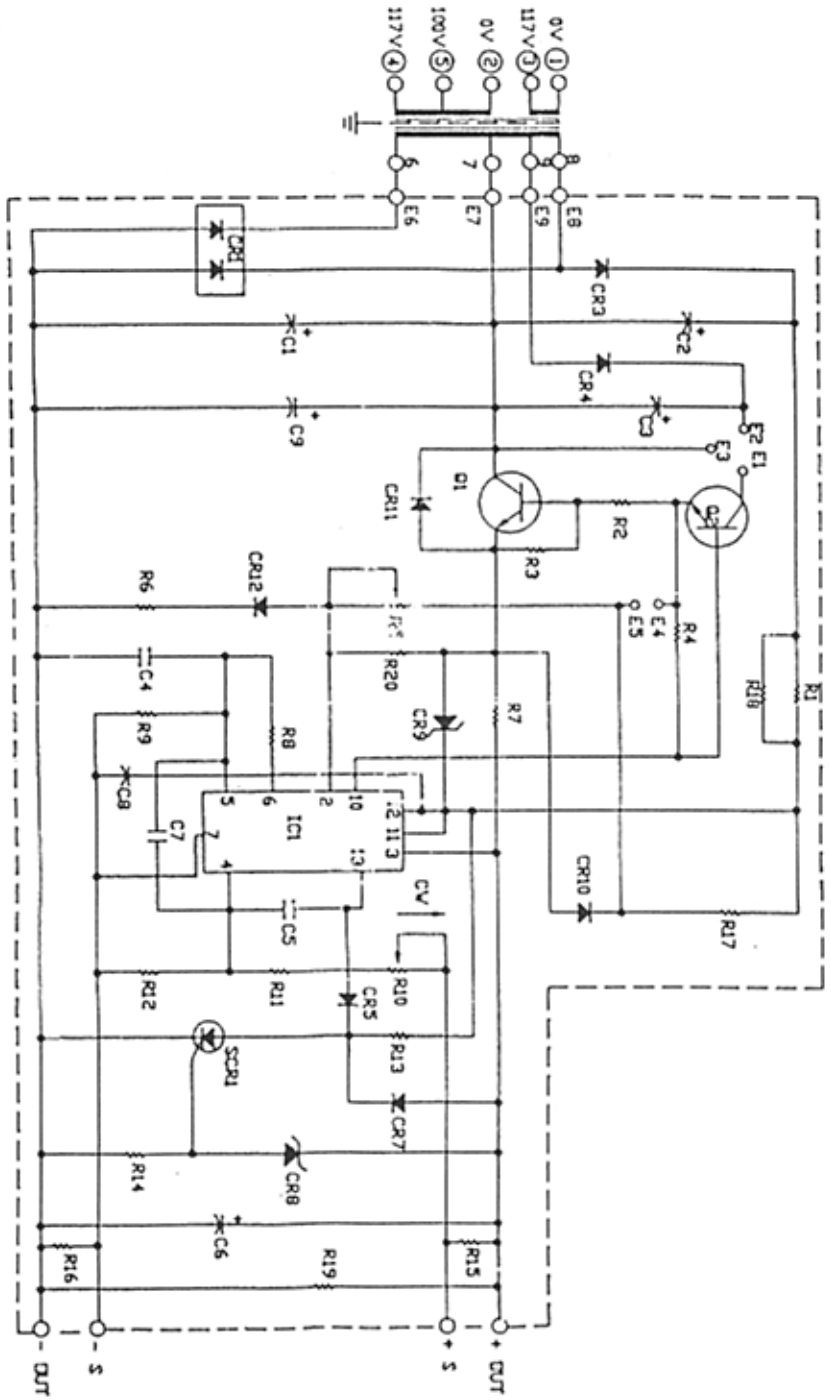

COMPONENT PARTS LIST
CASE B - SINGLE OUTPUT

REF. DES.	DESCRIPTION	SUGGESTED MANUF/TYPE		5N6-1	12N3.4	24N2.4
Q1	TRANSISTOR	RCA	2N3771	•		
Q1	TRANSISTOR	RCA	2N3772			•
Q2	TRANSISTOR	TIP-31A		•	•	•
C1, 9	CAPACITOR	NICH	15000uF 25V	•		
C1	CAPACITOR	NICH	8200uF 35V		•	
C1	CAPACITOR	ILL	4700uF 50V			•
C2	CAPACITOR	ILL	470uF 16V	•		
C2, 6	CAPACITOR	ILL	220uF 35V		•	
C2, 6	CAPACITOR	100uF 100V				•
C3	CAPACITOR	1000uF 16V		•		
C4	CAPACITOR	0.01uF 50V		•	•	•
C5	CAPACITOR	0.0047uF 50V		•		
C5	CAPACITOR	0.001uF 50V			•	•
C6	CAPACITOR	ILL	220uF 25V	•		
C8	CAPACITOR	MAL	10uF 50V	•	•	
SCR1	S.C.R.	RCA	C122F	•		
CR1	TRANSISTOR	GMN30B		•	•	•
CR3, 4, 5, 11	DIODE	MOT	1N4002	•		
CR3, 11	DIODE	MOT	1N4002		•	
CR3, 10, 11	DIODE	MOT	IN4002			•
CR7	DIODE	MOT	IN5402	•		
CR8	DIODE	WZ-056 5.6V 1/2W		•		
CR9	DIODE	WZ-270 27V 1/2W			•	
CR9	DIODE	WZ-056 5.6V 1/2W				•
CR12	DIODE	IN414			•	
IC1	I.C.	TI	uA723	•	•	•
R1, 13	RESISTOR	270 OHM 5% 1/2W		•		
R1	RESISTOR	1.6K OHM 5% 1/4W			•	
R1, 18	RESISTOR	7.5K OHM 5% 1/2W				•
R2	RESISTOR	2.7 OHM 5% 1/4W		•		
R3, 14	RESISTOR	22 OHM 5% 1/4W		•		
R3, 4	RESISTOR	2.2K OHM 5% 1/4W			•	•
R4, 8, 9	RESISTOR	2.2K OHM 5% 1/4W		•		
R5	POT	500 OHM 3321P		•		
R5	POT	5K OHM 3321P				•
R5	POT	1K OHM 3321P			•	
R6	RESISTOR	2.8K OHM 1% 1/4W		•		
R6	RESISTOR	8.06K OHM 1% 1/2W			•	
R6	RESISTOR	118K OHM 1% 1/4W				•
R7	RESISTOR	0.1 OHM 10% 3W			•	•
R8, 17	RESISTOR	1K OHM 5% 1/4W				•
R10	POT	1K OHM 3321P		•	•	•
R11	RESISTOR	866 OHM 1% 1/4W			•	
R11	RESISTOR	1.87K OHM 1% 1/4W				•
R12	RESISTOR	1K OHM 1% 1/4W		•		•
R12	RESISTOR	2K OHM 1% 1/4W			•	
R15, 16	RESISTOR	6.8 OHM 5% 1/4W		•	•	•
R19, 8	RESISTOR	1K OHM 5% 1/4W			•	
R19	RESISTOR	2.4K OHM 5% 1/2W				•
R20	RESISTOR	20K OHM 1% 1/4W				•
T	TRANSFORMER	PHIHONG	26241-529	•		
T	TRANSFORMER	PHIHONG	26241-531		•	
T	TRANSFORMER	PHIHONG	26241-534			•

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